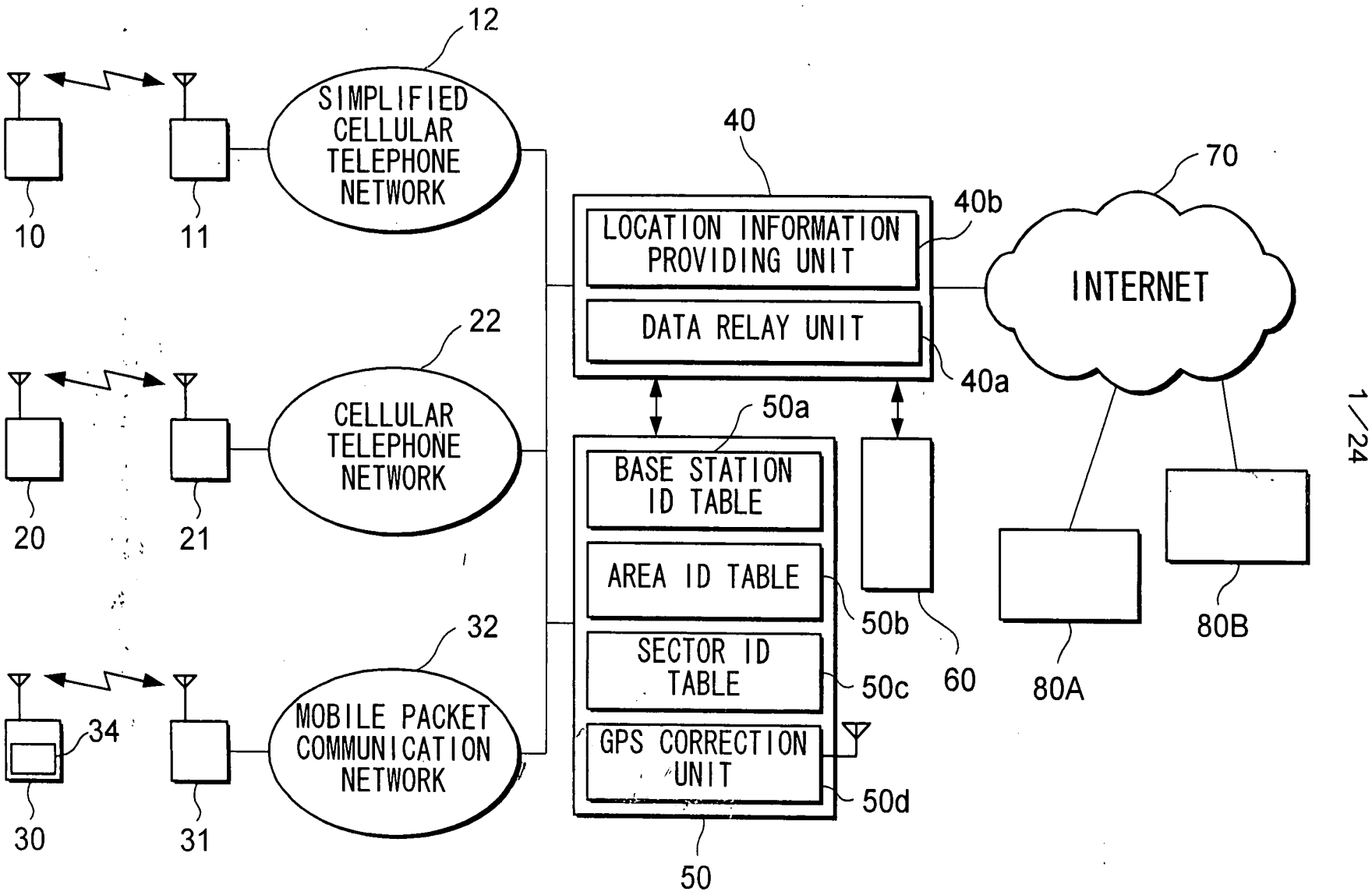
TO60E0 "BT898260

FIG. 1




F0299/3045
1/24
09/786818

FIG. 2

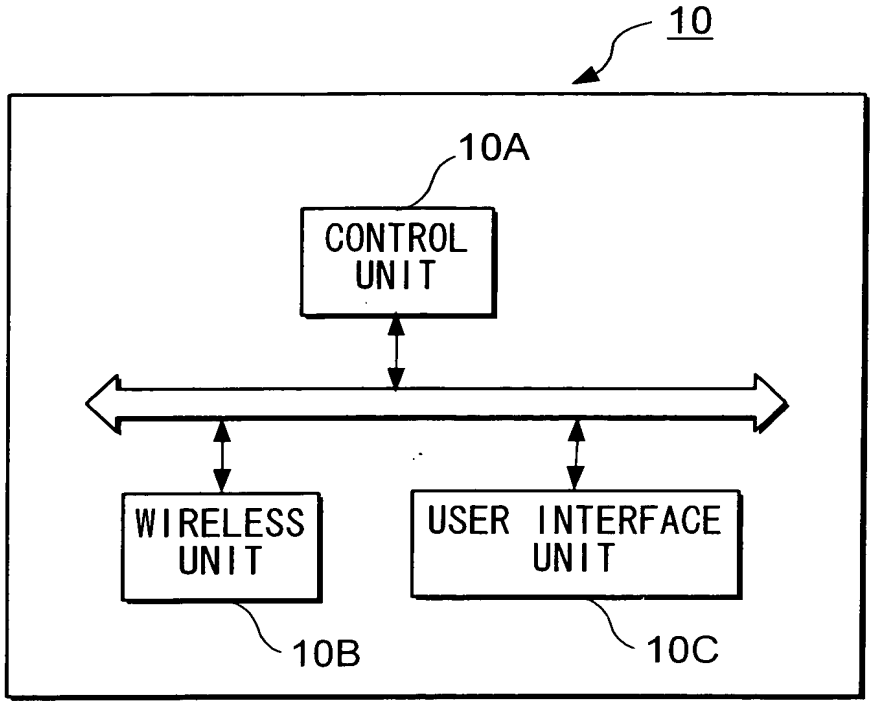
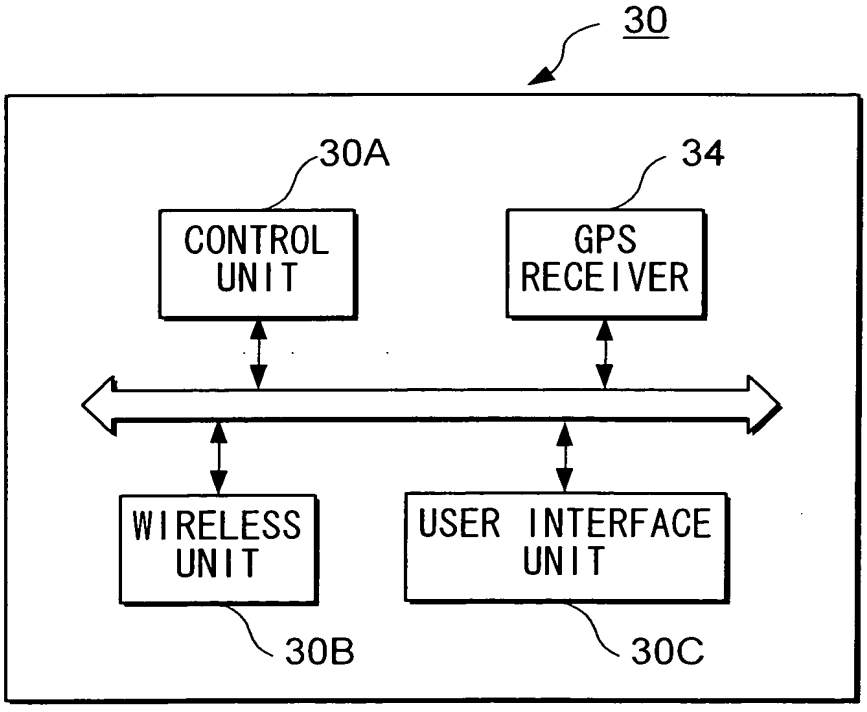



FIG. 3




09786818 - 030501

FIG. 4

| BASE STATION ID | IP SERVER 80A | IP SERVER 80B | ..... |
|---|---|---|---|
| BS0011 | X, Y | 1-1-1 TORANOMON, MINATO-KU | ..... |
| ..... | ..... | ..... | |

FIG. 5

| AREA ID | IP SERVER 80A | IP SERVER 80B | ..... |
|---|---|---|---|
| AREA001 | X, Y | 1-1-1 TORANOMON, MINATO-KU | ..... |
| ..... | ..... | ..... | |

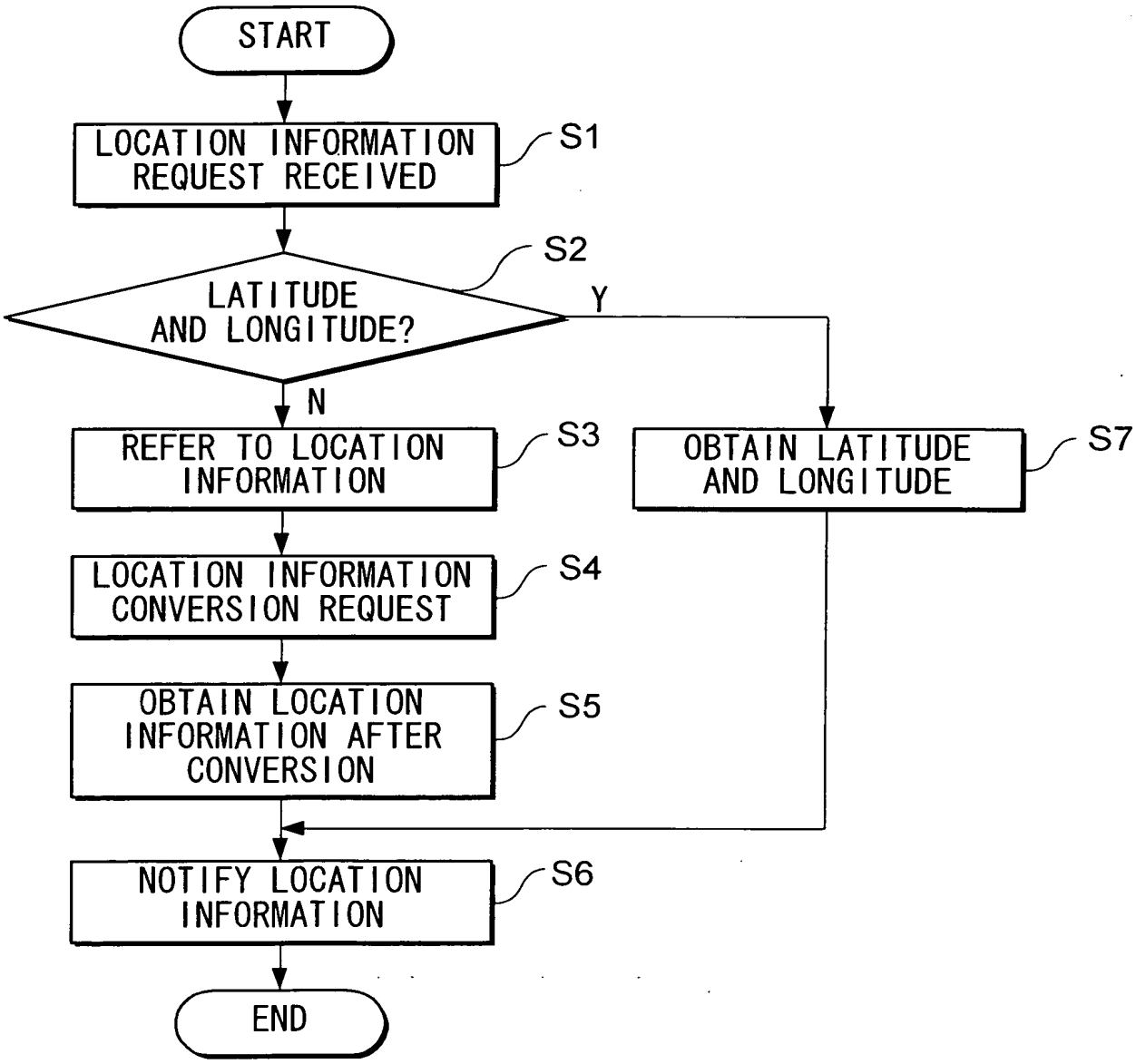
FIG. 6

| SECTOR ID | IP SERVER 80A | IP SERVER 80B | ..... |
|---|---|---|---|
| SEC001 | X, Y | 1-1-1 TORANOMON, MINATO-KU | ..... |
| ..... | ..... | ..... | |

FIG. 7

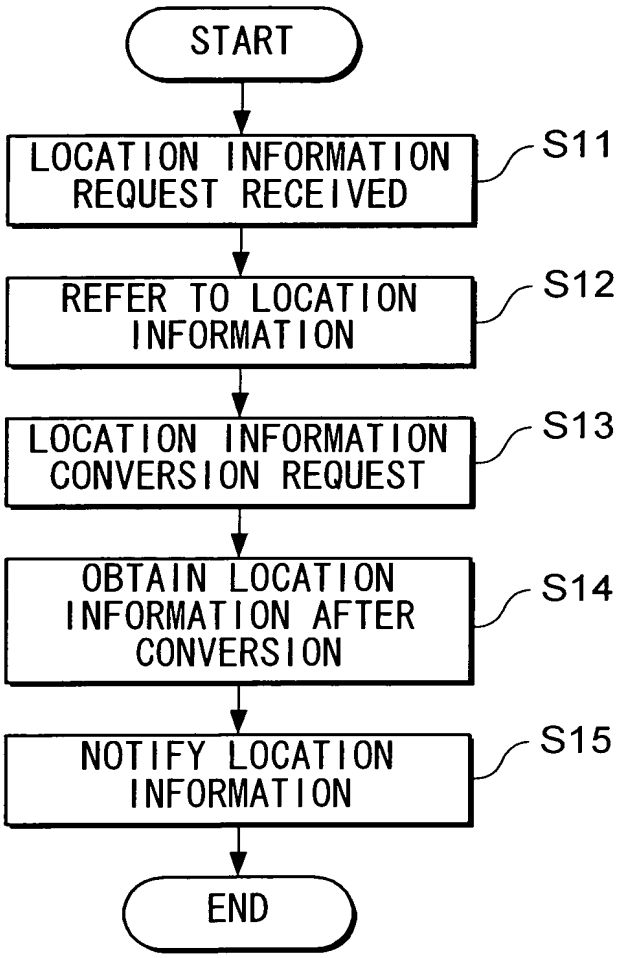
| LATITUDE AND LONGITUDE RECEIVERS |
|---|
| IP SERVER 80A |
| IP SERVER 80F |
| IP SERVER 80K |
| ..... |

FIG. 8




09786818 - 050604

FIG. 9




09786818-030501

FIG. 10

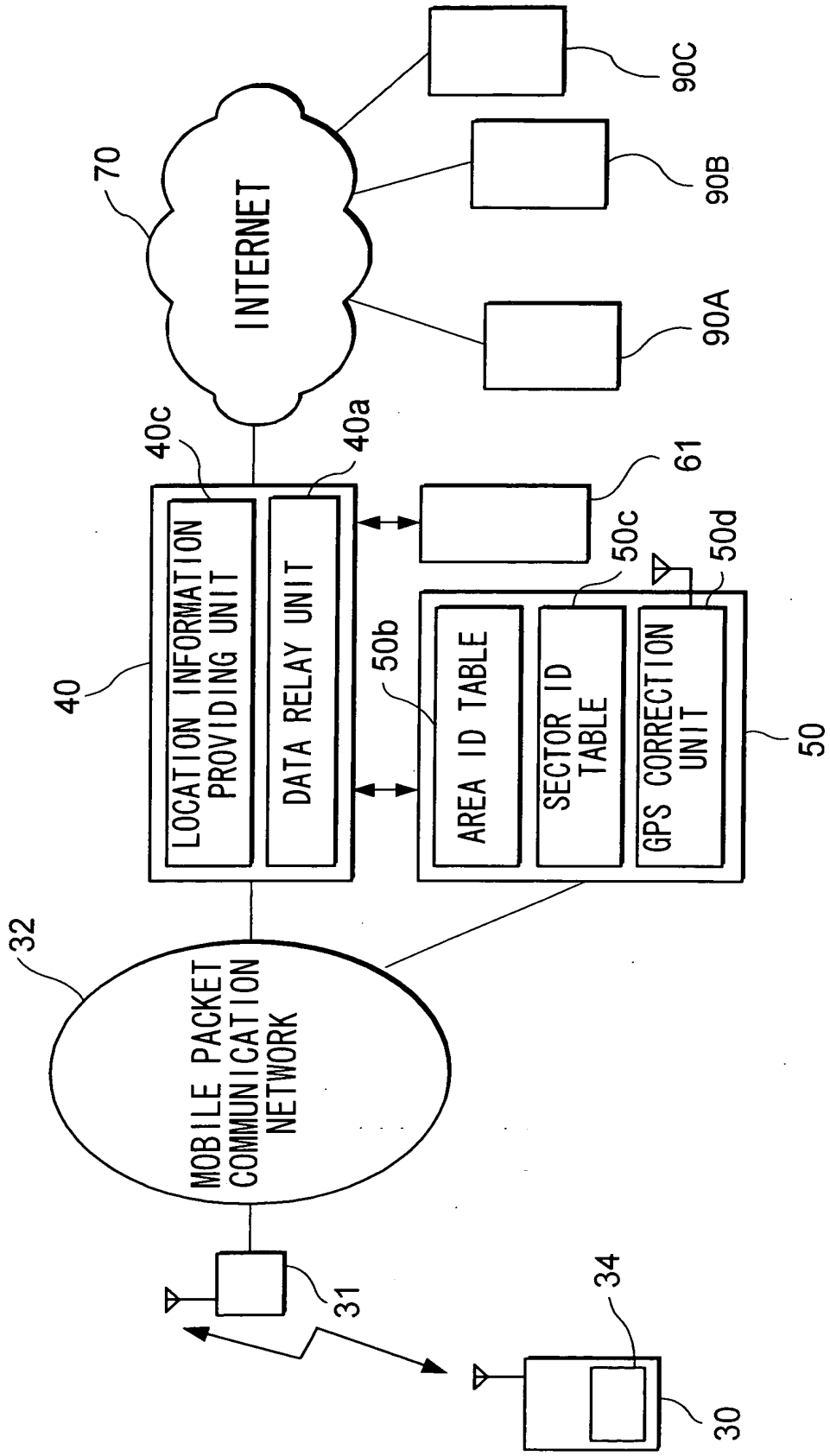

INTERNET
70
90C
90B
90A
40c
40a
61
40
LOCATION INFORMATION PROVIDING UNIT
DATA RELAY UNIT
50c
50d
50b
AREA ID TABLE
SECTOR ID TABLE
GPS CORRECTION UNIT
50
32
MOBILE PACKET COMMUNICATION NETWORK
31
34
30

FIG. 11

| AREA ID | REGION NAME |
|---|---|
| AREA001 | EAST TOKYO |
| ⋮ | ⋮ |

FIG. 12

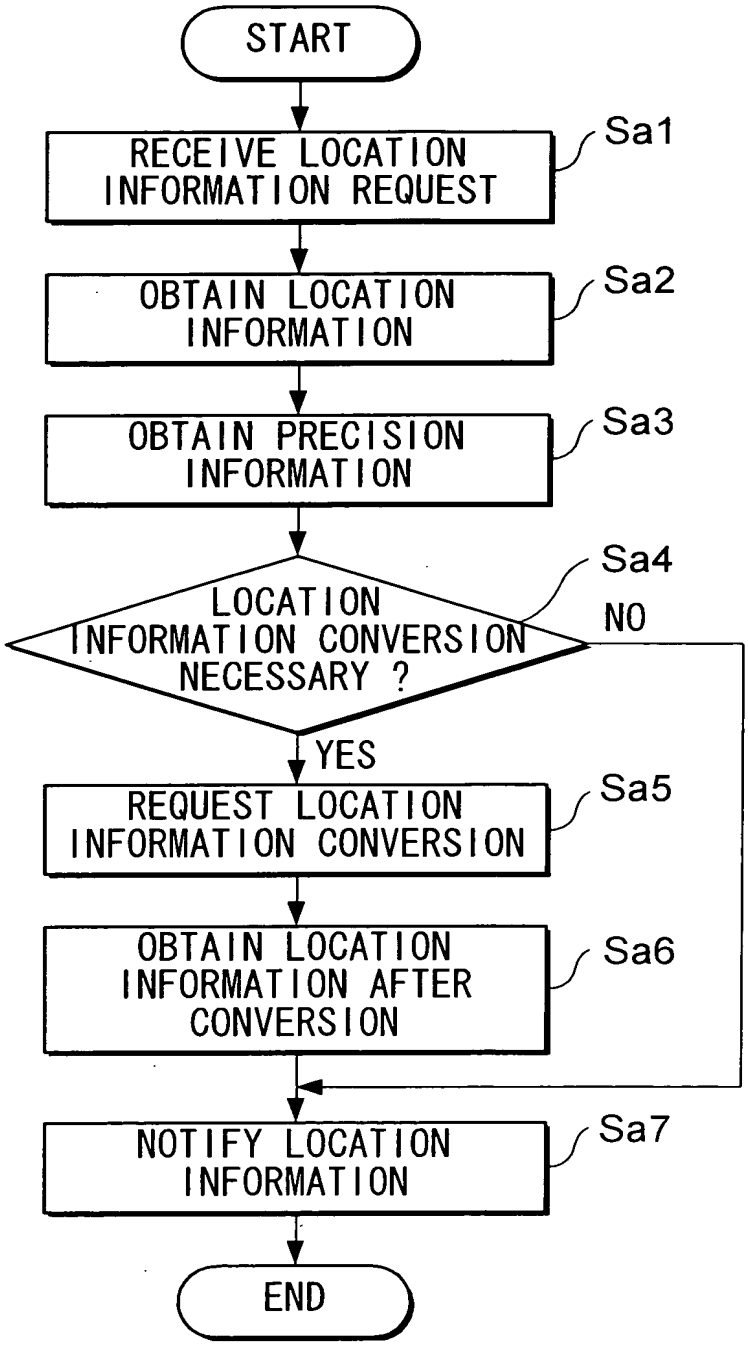
| SECTOR ID | REGION NAME |
|---|---|
| SEC001 | 1-CHOME, TORANOMON, MINATO-KU, TOKYO |
| ⋮ | ⋮ |

FIG. 13

| IP SERVER NAME | LOCATION INFORMATION PRECISION |
|---|---|
| IP SERVER 90A | HIGH-PRECISION |
| IP SERVER 90B | MEDIUM-PRECISION |
| IP SERVER 90C | MEDIUM-PRECISION |
| ⋮ | ⋮ |

Docket No. E0299/3045

FIG. 14




0960-0800-0300-0000

FIG. 15

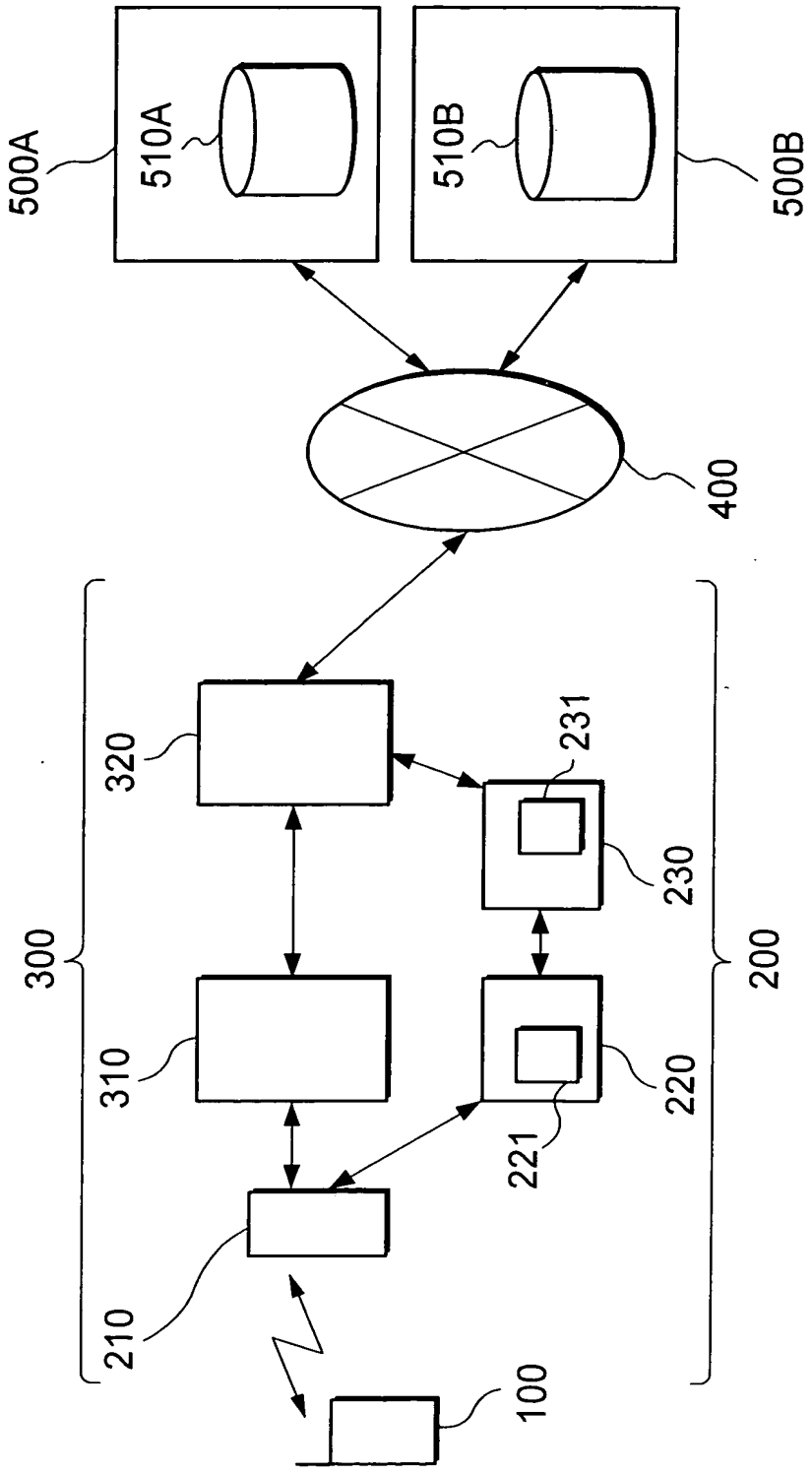
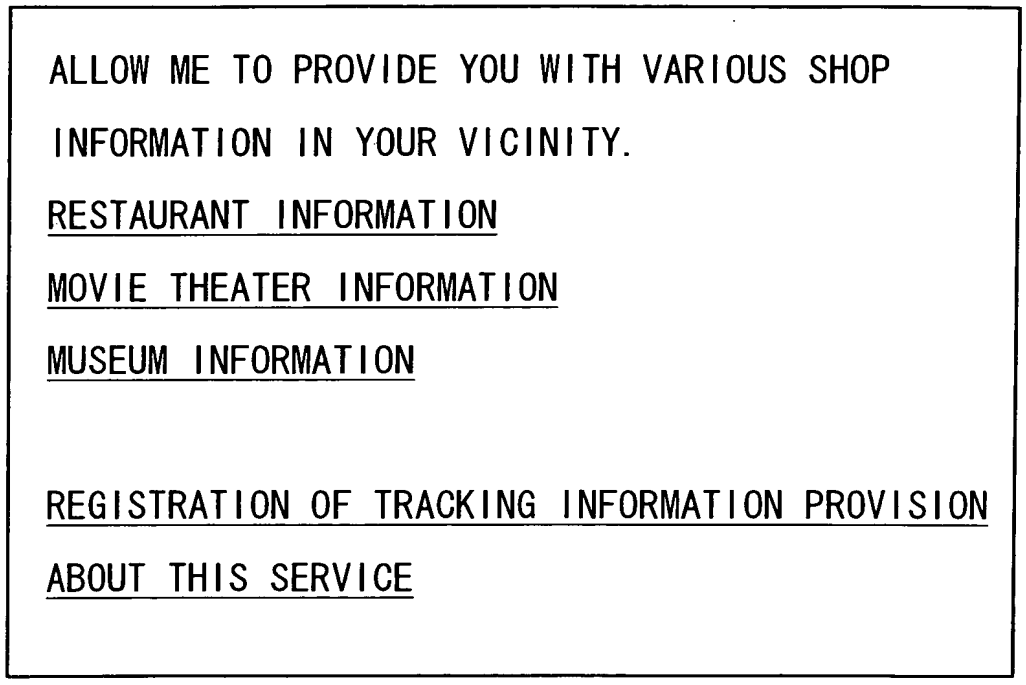


FIG. 16

```
<HTML>
<TITLE>SHOP INFORMATION IN YOUR VICINITY</TITLE>
<BODY>
ALLOW ME TO PROVIDE YOU WITH VARIOUS SHOP INFORMATION IN YOUR VICINITY.<BR>

<A HREF="http://xxx.co.jp/cgi-bin/restaurant.cgi?area=NULLAREA">RESTAURANT INFORMATION</A><BR>
<A HREF="http://xxx.co.jp/cgi-bin/movie.cgi?area=NULLAREA">MOVIE THEATER INFORMATION</A><BR>
<A HREF="http://xxx.co.jp/cgi-bin/artmuseum.cgi?area=NULLAREA">MUSEUM INFORMATION</A><BR>
<BR>
<A HREF="http://xxx.co.jp/cgi-bin/pushregist.cgi?uid=NULLID">REGISTRATION OF TRACKING INFORMATION
PROVISION</A><BR>
<A HREF="http://xxx.co.jp/about.html">ABOUT THIS SERVICE</A><BR>
</BODY>
</HTML>
```

FIG. 17




EP0986008A2

FIG. 18

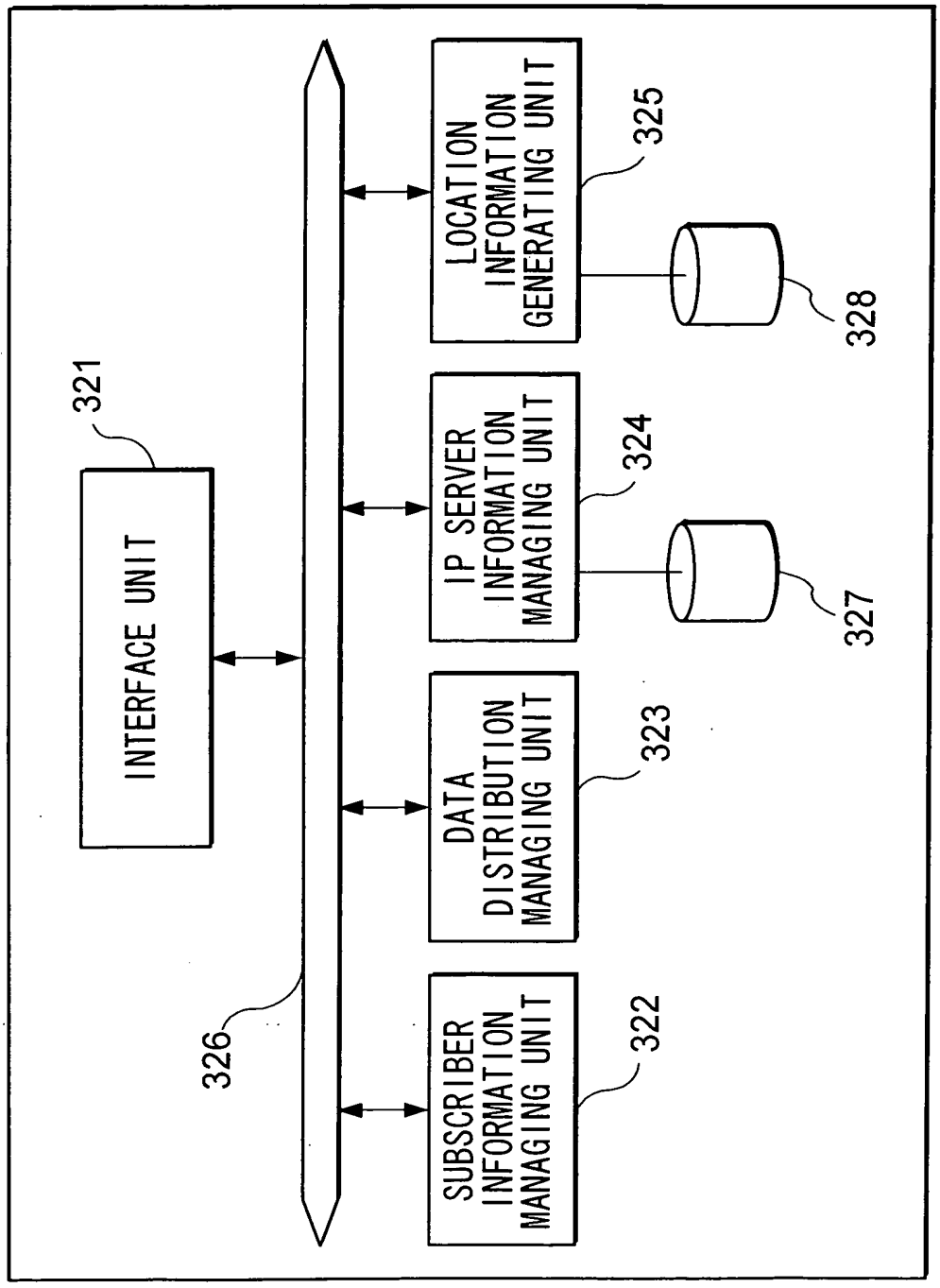

320
321
INTERFACE UNIT
326
SUBSCRIBER INFORMATION MANAGING UNIT
322
DATA DISTRIBUTION MANAGING UNIT
323
IP SERVER INFORMATION MANAGING UNIT
324
327
LOCATION INFORMATION GENERATING UNIT
325
328

FIG. 19

| IP SERVER NAME | HOST NAME | SERVICE NAME | LOCATION INFORMATION DISCLOSURE FLAG | USER CONSENT FLAG |
|---|---|---|---|---|
| IP SERVER 500A | xxx.co.jp | POSITION RELATED INFORMATION PROVIDING SERVICE | ON | ON |
| IP SERVER 500B | yyy.co.jp | POSITION RELATED INFORMATION PROVIDING SERVICE | ON | OFF |
| IP SERVER 500C | zzz.co.jp | WIDE-AREA INFORMATION PROVIDING SERVICE | OFF | — |
| ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... |



F0299/3045
09/786818

FIG. 20

| BASE STATION ID | REGION CODE |
|---|---|
| BS001 ~ BS005 | CODE001 |
| ..... | ..... |
| ..... | ..... |
| ..... | ..... |
| ..... | ..... |
| ..... | ..... |

FOR OFFICIAL USE ONLY

EP0860760 EP0898760

F0299/3045

FIG. 21

| REGION CODE | REGION NAME | POSITION RELATED INFORMATION | | | | |
|---|---|---|---|---|---|---|
| | | BUILDING NAME | ADDRESS | TELEPHONE NUMBER | EVENT | OTHER INFORMATION |
| CODE001 | 1-CHOME, SHIBUYA-KU | RESTAURANT A | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... |
| | | MOVIE THEATER B | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... |
| | | MUSEUM C | ... | ... | ... | ... |
| | | ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... | ... | ... |
| ... | ... | ... | ... | ... | ... | ... |



09/786818

FIG. 22A

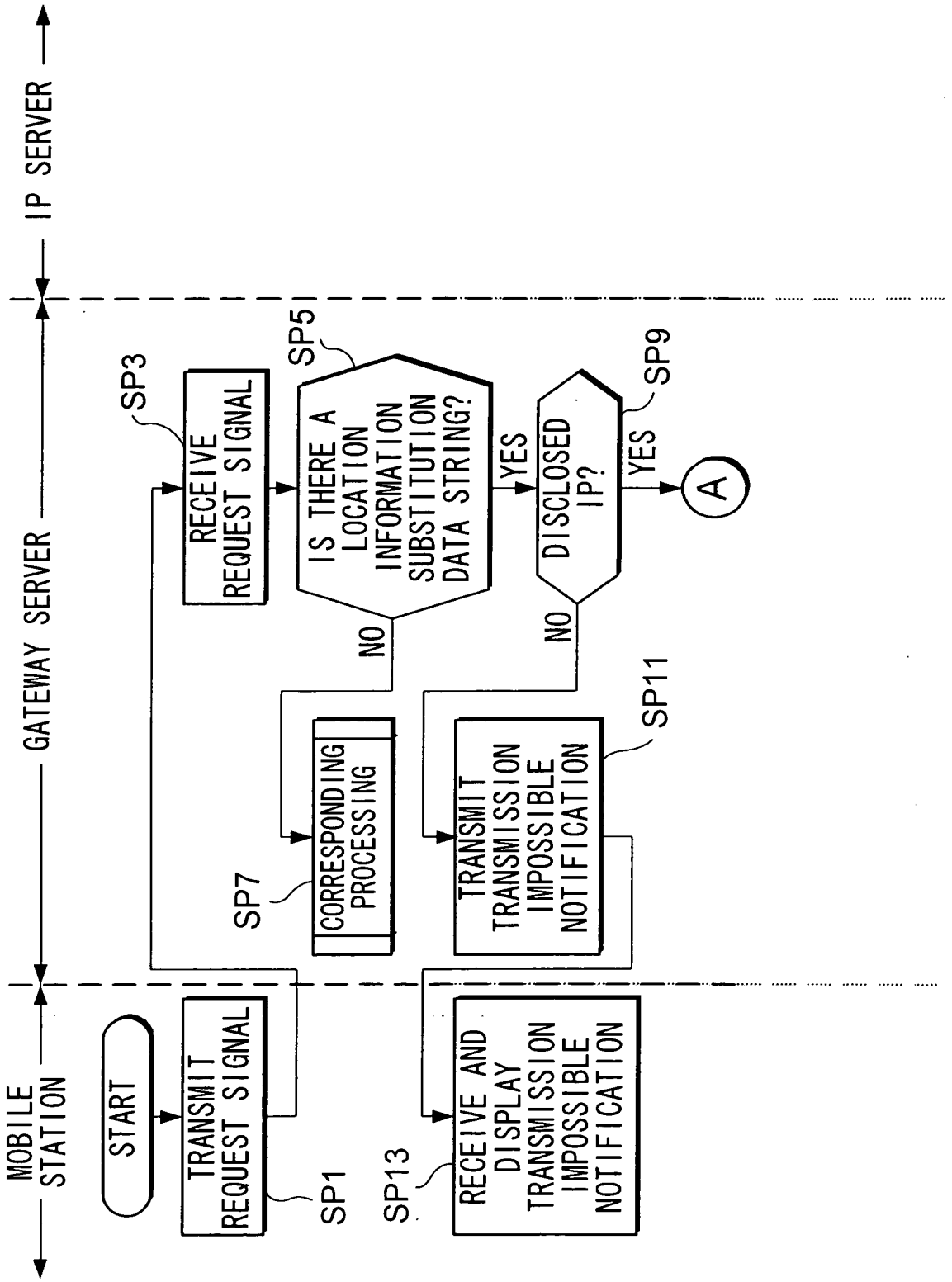

MOBILE STATION
GATEWAY SERVER
IP SERVER
START
TRANSMIT REQUEST SIGNAL
SP1
RECEIVE REQUEST SIGNAL
SP3
IS THERE A LOCATION INFORMATION SUBSTITUTION DATA STRING?
SP5
YES
NO
DISCLOSED IP?
SP9
YES
NO
A
CORRESPONDING PROCESSING
SP7
TRANSMIT TRANSMISSION IMPOSSIBLE NOTIFICATION
SP11
RECEIVE AND DISPLAY TRANSMISSION IMPOSSIBLE NOTIFICATION
SP13

FIG. 22B

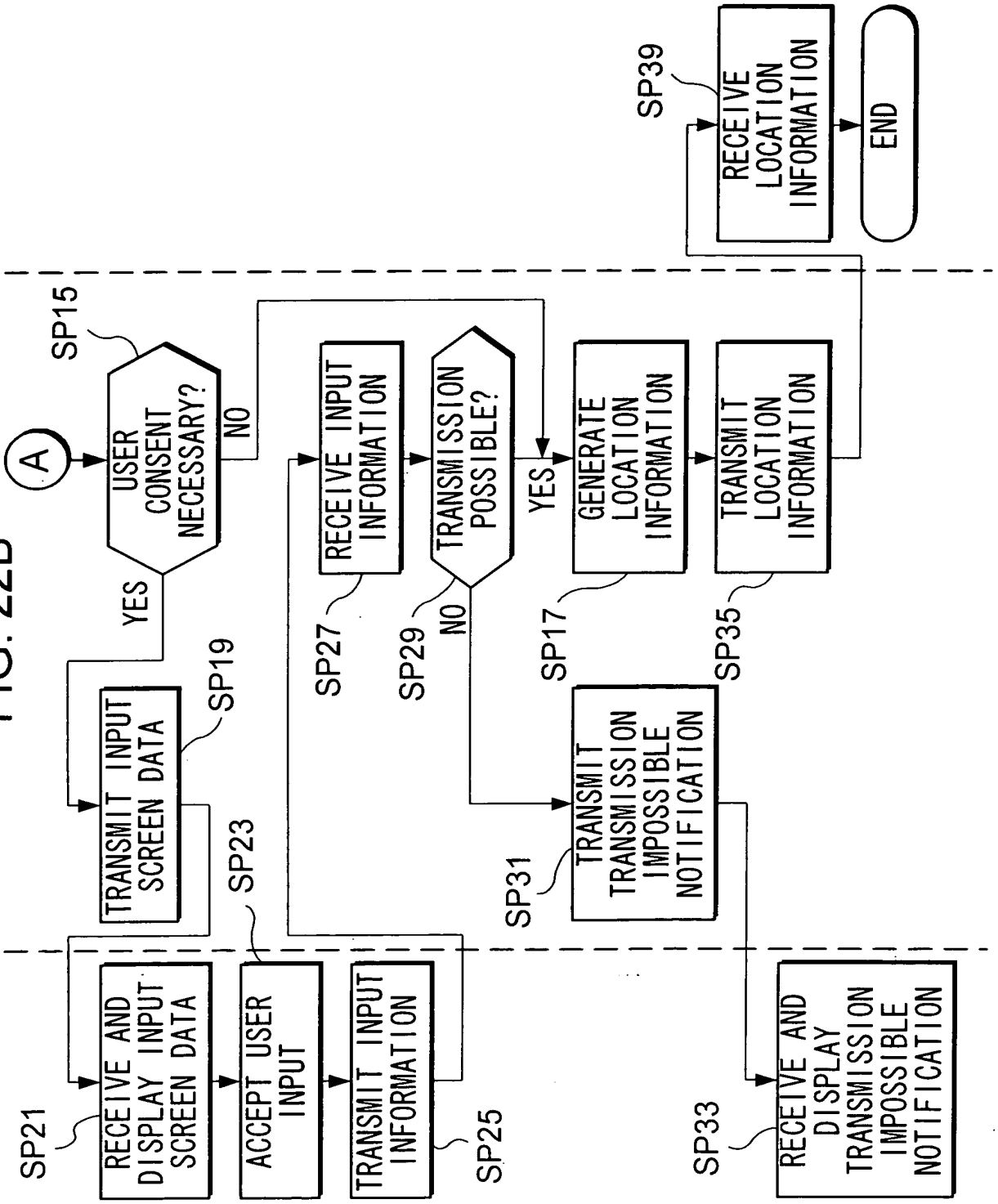

A
SP15
USER CONSENT NECESSARY?
YES
NO
SP19
TRANSMIT INPUT SCREEN DATA
SP23
SP21
RECEIVE AND DISPLAY INPUT SCREEN DATA
ACCEPT USER INPUT
TRANSMIT INPUT INFORMATION
SP25
SP27
RECEIVE INPUT INFORMATION
SP29
TRANSMISSION POSSIBLE?
NO
YES
SP31
TRANSMIT TRANSMISSION IMPOSSIBLE NOTIFICATION
SP17
GENERATE LOCATION INFORMATION
SP35
TRANSMIT LOCATION INFORMATION
SP33
RECEIVE AND DISPLAY TRANSMISSION IMPOSSIBLE NOTIFICATION
SP39
RECEIVE LOCATION INFORMATION
END

FIG. 23

| BASE STATION ID | MOBILE STATION ID |
|---|---|
| BS001 | MS09011111111 |
| | MS09011111122 |
| | MS09011111130 |
| BS002 | — |
| BS003 | MS09011111140 |
| ... | ... |
| ... | ... |
| ... | ... |
| ... | ... |

09786818-030501

FIG. 24

| MOBILE STATION ID | POSITION REGISTRATION AREA ID |
|---|---|
| MS09011111111 | AREA0001 |
| MS09011111112 | AREA0011 |
| MS09011111113 | AREA0050 |
| ... | ... |
| ... | ... |
| ... | ... |
| ... | ... |
| ... | ... |
| ... | ... |

FIG. 25

| MOBILE STATION ID | PSEUDO ID |
|---|---|
| MS09011111111 | 00ZDGVXAKLLG |
| ... | ... |
| ... | ... |
| ... | ... |
| ... | ... |
| ... | ... |
| ... | ... |

FIG. 26A

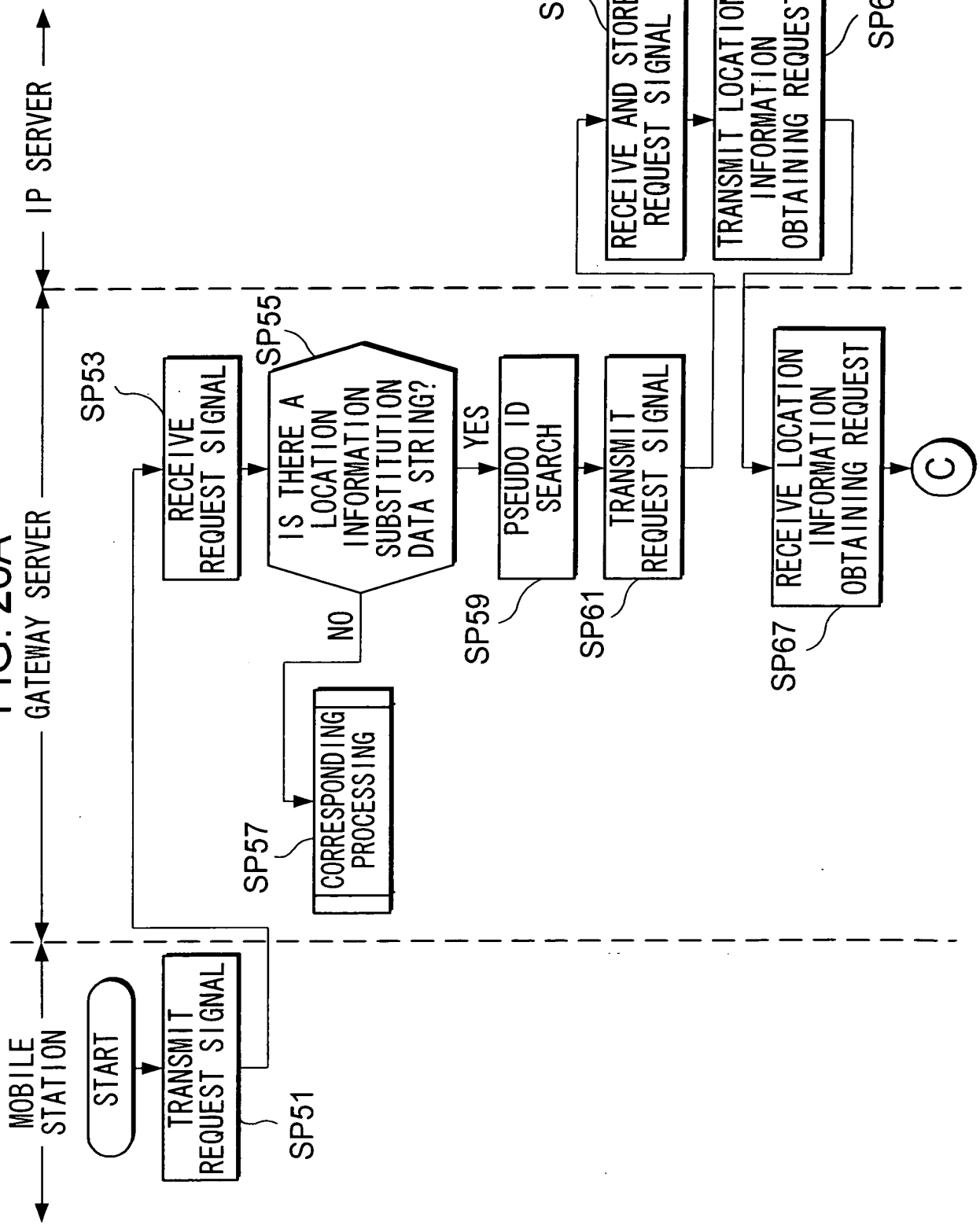

MOBILE STATION
GATEWAY SERVER
IP SERVER
START
TRANSMIT REQUEST SIGNAL
SP51
RECEIVE REQUEST SIGNAL
SP53
IS THERE A LOCATION INFORMATION SUBSTITUTION DATA STRING?
SP55
YES
NO
CORRESPONDING PROCESSING
SP57
PSEUDO ID SEARCH
SP59
TRANSMIT REQUEST SIGNAL
SP61
RECEIVE AND STORE REQUEST SIGNAL
SP63
TRANSMIT LOCATION INFORMATION OBTAINING REQUEST
SP65
RECEIVE LOCATION INFORMATION OBTAINING REQUEST
SP67
C

FIG. 26B

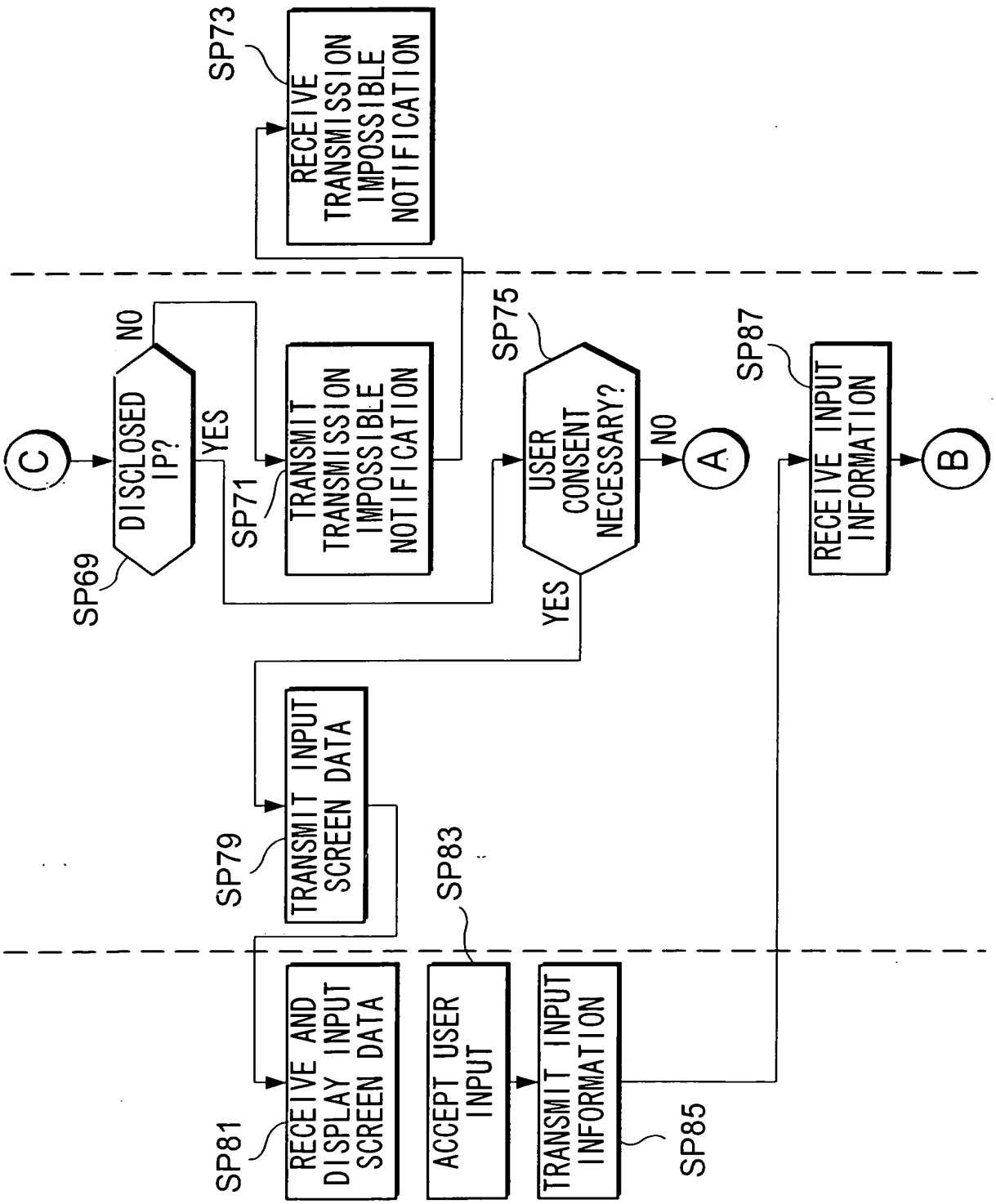

C
DISCLOSED IP?
NO
YES
SP69
SP71
TRANSMIT TRANSMISSION IMPOSSIBLE NOTIFICATION
SP73
RECEIVE TRANSMISSION IMPOSSIBLE NOTIFICATION
SP75
USER CONSENT NECESSARY?
NO
A
YES
SP79
TRANSMIT INPUT SCREEN DATA
SP81
RECEIVE AND DISPLAY INPUT SCREEN DATA
SP83
ACCEPT USER INPUT
TRANSMIT INPUT INFORMATION
SP85
SP87
RECEIVE INPUT INFORMATION
B

FIG. 27

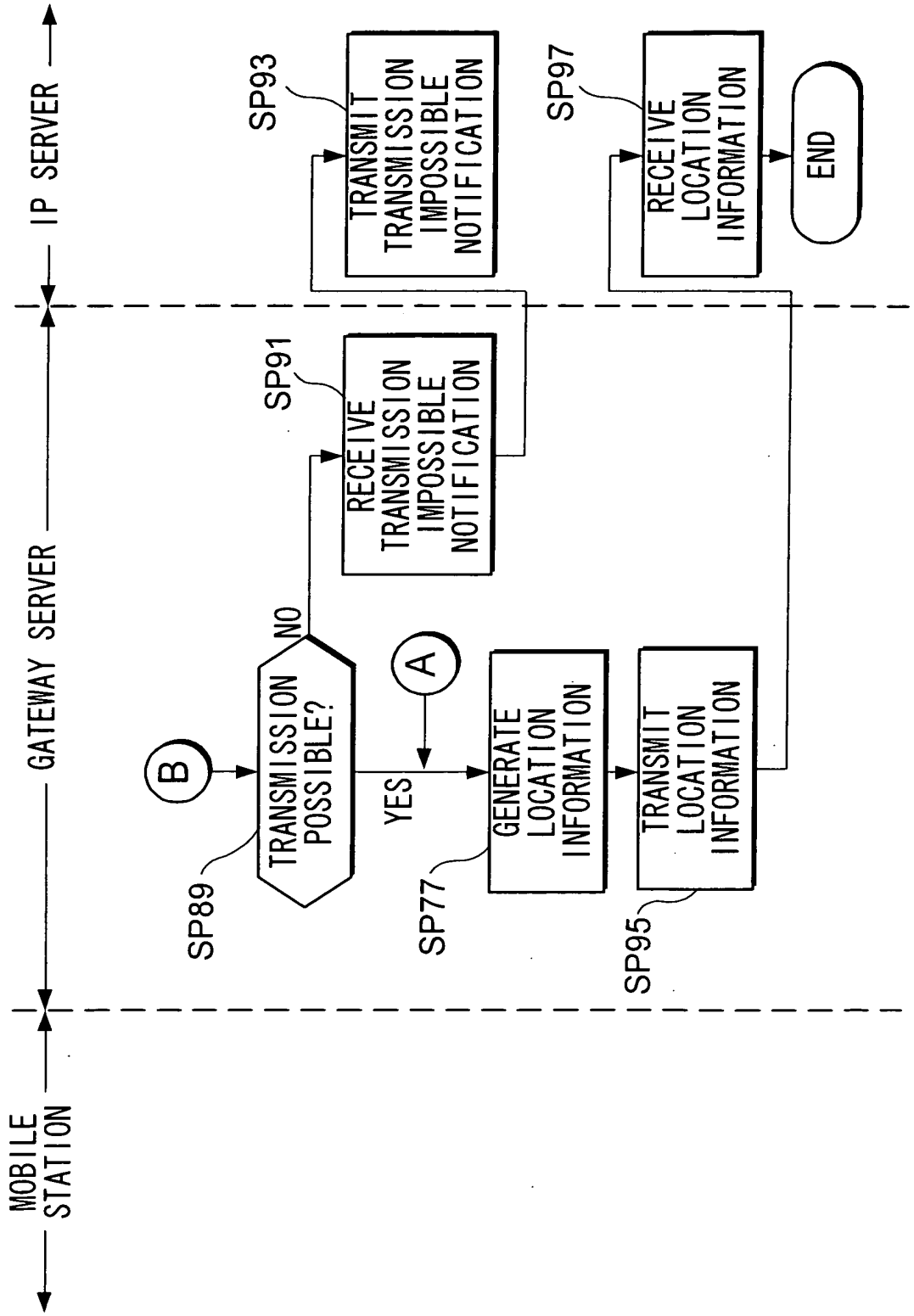

MOBILE STATION
GATEWAY SERVER
IP SERVER
SP89
TRANSMISSION POSSIBLE?
NO
YES
SP91
RECEIVE TRANSMISSION IMPOSSIBLE NOTIFICATION
SP93
TRANSMIT TRANSMISSION IMPOSSIBLE NOTIFICATION
SP77
GENERATE LOCATION INFORMATION
SP95
TRANSMIT LOCATION INFORMATION
SP97
RECEIVE LOCATION INFORMATION
END
A
B

FIG. 28

| MOBILE STATION ID | LOCATION INFORMATION DISCLOSURE IP SERVER |
|---|---|
| MS09011111111 | IP SERVER 500A |
| | IP SERVER 500B |
| | IP SERVER 500H |
| | ..... |
| MS09011111112 | IP SERVER 500D |
| | IP SERVER 500M |
| | ..... |
| ..... | ..... |
| | |
| | |
| | |

FIG. 29

| ID OF MOBILE STATIONS WHICH DO NOT DISCLOSE LOCATION INFORMATION |
|---|
| MS09011111122 |
| MS09011155555 |
| ..... |
| ..... |
| ..... |
| ..... |

F0299/30450 09/786818